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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

James LUCAS and Ahmed AL-SHAMMAA

International Application No.: PCT/GB00/00168

International Filing Date: 24 January 2000

For: APPARATUS AND METHOD FOR DETERMINING DIELECTRIC PROPERTIES
OF AN ELECTRICALLY CONDUCTIVE FLUID

Assistant Commissioner of
Patents & Trademarks
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to examination of the above-referenced patent application, please make the
following amendments and consider the following remarks.

In the claims:

Please amend claims 4- 9 and 11 as follows:

4. (Amended)An apparatus in accordance with claim 1, wherein the antenna
for emitting electromagnetic radiation into the fluid material is disposed within the resonant
cavity such as to project into the fluid material, the antenna being provided with an insulating
layer by which is it electrically isolated from the fluid material.
5. (Amended)An apparatus in accordance with claim 1, wherein the boundary
of the resonant cavity comprises a conductive wall whose inner surface is covered by said

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